Chemical ID: P080508

#### POST FOCUS EXPOSURE REPORT

Reviewer: Sherer

2008 507 00 1, 0 72

Results Table: Dose, Concentration, and Days Exceeded Results Summary

Exposure Scenario	1. 110		r W	ater			Landfill	Stac	k Air	Fugiti	ve Air
Release activity(ies) <sup>2</sup> ; exposure	Drinkin ADR	g Water LADD	Fish In	gestion LADD	7Q10 CC=4	PDM Days Exceeded	LADD	ADR	LADD	ADR	LADD
calculation(s)3	mg/kg/day	mg/kg/day	mg/kg/day	mg/kg/day	μg/l	# Days	mg/kg/day	mg/kg/day	mg/kg/day	mg/kg/day	mg/kg/day
Mfr/Use, max ADR,max LADD							-	-	-	3.68E-02	4.55E- 04
Use 2, PDM1, max ADR	6.23E-07		1.19E-08		1E-02	0	•	-	-	-	-
Use 2, Max ADR							-	-	-	3.13E-02	
Use 2,PDM2	6.05E-07		1.16E-08		9.72E-03	0	-	-	-	-	-
Use 2, Max LADD		1.31E-08		1.77E-10				-		-	4E-04
Use 4, PDM, max ADR	1.95E-06		4.44E-08		3.99E-02	0	-	-	-	-	-
Use 4, Max LADD		3.24E-08		4.38E-10				-	-	-	-
Proc, PDM, max ADR	1.62E-10		3.11E-12	,	2.61E-06	0	-	-	-	-	-
Proc, Max LADD		1.44E-12		1.95E-14							

Exposure scenario titles consist of release activity followed by exposure calculation abbreviation.

Multiple release activities are combined in one exposure scenario if their releases occur at same location.

Results Table: Exposure Based (XB)/Persistent (P2B2) Criteria

Parameter 1912 -	Exp Based	Persistent	Exceedance Value
Drinking (Surface) Water Dose (mg/kg/day)	No	No	
Fish Ingestion Dose (mg/kg/day)	No	No	
Inhalation Dose (mg/kg/day)	No	YES	
Groundwater Dose (mg/kg/day)	No	No	
Surface Water Release After Treatment (kg/yr)			
Total Release After Treatment (kg/yr)			
Consumer Use?	No		

Fate test recommendations?: Laurence Libelo recommends full set of fate testing





<sup>&</sup>lt;sup>2</sup> Release activities are from engineering report's Manufacturing (Mfg), Processing (Proc) and Use release activity labels.

<sup>&</sup>lt;sup>3</sup> Exposure calculations are Acute Dose Rate (ADR), Lifetime Average Daily Dose (LADD), and Probabilistic Dilution Model (PDM). There may be one, two, or all three exposure calculations per exposure scenario. CC is the aquatic concentration of concern.

Summary Table: Endpoints assessed

Endpoints-Assessed Table

Endpoints 713503500 Tuble	<b>《</b> 图 / / 图 / 图 / 图 / 图 / 图 / 图 / 图 / 图 /		The Thi	Reasons fo	r not assessin	g releases	# DF - 17 - 17
Endpoints/Assessment Cycles <sup>1</sup>	Releases Assessed in NCEM2?	No XB Testing Required	No Hazard Concern	No Releases	Release Below Acute Threshold <sup>3</sup>		Other
Ingestion	of classical and	AND SECTION AND SECTION ASSESSMENT	or and a	Harten Co.	d. 412 14 19 19 19 19 19 19 19 19 19 19 19 19 19	Water and Water Contract of the Contract of th	THE THE PERSON NOTIFIED
Surface water	Y	NA					
Ground water (landfill)	Y	NA					
Consumer Use: DtD <sup>2</sup>	No	NA			NA	NA	No Consumer use
Inhalation	AL PER PER	1 100 m 100 m	pl party of the	A AND A STATE OF THE STATE OF T	The state of the s		amenia
Air: incineration (stack)	N	NA			х		
Air: fugitive	Y	NA					
Consumer Use: CEM <sup>3</sup>	No	NA			NA	NA	No Consumer use
Dermal	. pp	er	- 1 a	.204	, # , HI		
Consumer Use: CEM	No	NA			NA	NA	No Consumer use
Eco		Street She	F 16 18 18 18 18 18 18 18 18 18 18 18 18 18	Salar	Thur Made	46, 16, 16	on the series of
Surface water: ADR conc and/or PDM <sup>4</sup>	Y	NA			NA	NA	
Consumer Use: DtD	No	NA			NA	NA	No Consumer use

Assessment cycles are endpoint concentrations and dose calculations within the NCEM2 model.

Remarks: Default table assumes case is not XB and no consumer use.

<sup>&</sup>lt;sup>2</sup>Down-the-Drain Module

<sup>&</sup>lt;sup>3</sup>Consumer Exposure Module

<sup>&</sup>lt;sup>4</sup>Probabilistic Dilution Model



Chemical ID: P080508a		Assessor:		
A STATE OF THE STA	ENVII	RONMENTAL RELEASE	S	
Scenario#:1		Number of Release Site	es;	
Release Activity:	, Max ADR			
Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:				
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)
		Non-sludge/Sludge	٠	
Release Days/yr:				
Per Site Release:			λ.	
_	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Chemical ID: P080508a

# INHALATION EXPOSURE ESTIMATES (POST-TREATMENT)

SCENARIO #: 1

RELEASE ACTIVITY

Max ADR

RELEASE DESCRIPTION:

METHOD OF CALCULATION: Screen3

EXPOSED POPULATION: Adult

Number of Sites:

Per Site Fugitive Release: kg/site/day

Fugitive Release Days per Year: days

% Removal via Fugitive Release: 0.00 %

Total Fugitive Release: kg/yr

Max Annual Average Air Concentration 6.08 μg/m<sup>3</sup>

(Fugitive):

Max 24 Hour Average Air 200.00 μg/m<sup>3</sup>

Concentration(Fugitive):

Per Site Stack Release: kg/site/day

Stack Release Days per Year: days

% Removal via Stack Release:

Total Stack Release: kg/yr

Max Annual Average Air Concentration (Stack): 5.56 μg/m<sup>3</sup>

Max 24 Hour Average Air Concentration (Stack): 71.50 μg/m<sup>3</sup>

Exposure Units	Results (Stack)	Results (Fugitive)	ED (years)	ASSUA AT (years)	APTIONS BW (kg)	Inh. Rate (m³/hr)
LADD <sub>pot</sub> (mg/kg/day)	N/A	Cancer 4.47E-04	30.00	75.00	71.80	0.55
LADC <sub>pot</sub> (mg/m <sup>3</sup> )	N/A	2.43E-03	30.00	75.00	NA	NA
Acute with the Tolk State of the Telegraph of the Acute						
ADR <sub>pot</sub> (mg/kg/day)	N/A	3.68E-02	NA	1 day	71.80	0.55

Inhalation Comments:

Stack Parameter Data			Fugitive Parameter Data	ı	
Stack Height	10.00	m	Release Height:	3.00	m
Inside Stack Diameter:	0.10	m	Length of Release Opening:	10.00	m
Stack Gas Exit Velocity:	0.10	m/sec	Width of Release Opening:	10.00	m
Stack Gas Temperature:	293.00	K			

# Meteorological and Terrain Information:

Surrounding Land Use:	Rural	
Terrain Height:	0.00	m
Distance to Residence of Interest:	100.00	m
Meteorological Class:	Full	
Stability Class:	NA	
Wind Speed:	NA	

## Downwash Information:

Facility Length:	NA	m
Facility Width:	NA	m
Facility Height:	NA	m

Chemical ID: P080508a	Assessor:					
	ENVI	RONMENTAL RELEASE	Service of the servic	one of the second secon		
Scenario#:2		Number of Release Site	es:			
Release Activity:	PDM,max ADR					
Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE		
Total Releases:						
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)		
		Non-sludge/Sludge				
Release Days/yr:						
Per Site Release:						
	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)		

Chemical ID: P080508a

NPDES PERMIT #

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: PDM,max ADR

FACILITY NAME: PDM,max ADR

RECEIVING WATER NAME: FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

WWT
REMOVAL
(%)

RELEASE
(kg/site/day)

RELEASE
(kg/site/day)

RELEASE
(kg/site/day)

RELEASE
(kg/site/day)

RELEASE
(kg/site/day)

EXPOSED POPULATION: Adult

AQU	ATIC EXPOSURE ÉSTIMA	ATÉS - SURF	ACE WATER	There is a second of the secon	107
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	P all	PLANT
FLOW (MLD)			5		
CONCENTRATION (µg/L)	2.10E-03	7.46E-03	1.00E-02	1.26E-02	NA

DRINKING WATER IN	GESTION AND FISH INGESTION E	XPOSURE ESTIMATES
Exposure Units	Drinking Water Drinking Water Units	Fish Ingestion Results Fish Ingestion Units
	Cancer	
LADD <sub>pot</sub>	1.98E-09 mg/kg/day	2.68E-11 mg/kg/day
LADC <sub>pot</sub>	1.01E-07 mg/L	3.21E-07 mg/kg
	Acute	
ADR <sub>pot</sub>	6.23E-07 mg/kg/day	1.19E-08 mg/kg/day

Surface Water Comments:

Chemical ID: P080508a

# SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 2

RELEASE ACTIVITY: PDM,max ADR

FACILITY NAME:

FACILITY LOCATION:

RECEIVING STREAM NAME:

REACH NUMBER

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER:

GAGING STATION ID: N/A

GAGING STATION

GAGING STATION

NUMBER OF STATIONS ON

PERIOD OF RECORD: N/A

MEAN FLOW (MLD)

NUMBER OF

REACH: N/A

7q10 FLOW (MLD):

OBSERVATIONS: N/A

EFFLUENT FLOW (MLD):

A STATE OF THE STA	The second secon	RESU	LTS:
COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release Pre-treatment Waste Water days/year Loading (kg/site/day)
1000.00	0	0	

Chemical ID: P080508a

# INHALATION EXPOSURE ESTIMATES (POST-TREATMENT)

SCENARIO#: 2

RELEASE ACTIVITY

PDM,max ADR

RELEASE DESCRIPTION:

METHOD OF CALCULATION: Screen3

EXPOSED POPULATION: Adult

Number of Sites:

Per Site Fugitive Release: kg/site/day

Fugitive Release Days per Year: days

% Removal via Fugitive Release: 0.00 %

Total Fugitive Release: kg/yr

Max Annual Average Air Concentration 3.71E-02 μg/m³

(Fugitive):

Max 24 Hour Average Air 170.00 μg/m<sup>3</sup>

Concentration(Fugitive):

Per Site Stack Release: kg/site/day

Stack Release Days per Year: days

% Removal via Stack Release: 0.00 %

Total Stack Release: kg/yr

Max Annual Average Air Concentration (Stack): 0.00 μg/m<sup>3</sup>

Max 24 Hour Average Air Concentration (Stack): 0.00 μg/m<sup>3</sup>

LADC <sub>pot</sub> (mg/m <sup>3</sup> )	N/A	1.48E-05 Acute	30.00	75.00	· NA	NA
LADD <sub>pot</sub> (mg/kg/day)	N/A	2.73E-06	30.00	75.00	71.80	0.55
Exposure Units	Results (Stack)	Results (Fugitive)	ED (years)	AT (years)	APTIONS BW (kg)	Inh. Rate (m³/hr)

Inhalation Comments:

N/A

N/A

N/A

Stack Parameter I	<b>Data</b>		Fugitive Parameter Dat	a
Stack Height	10.00	m .	Release Height:	
Inside Stack Diameter:	0.10	m	Length of Release Opening:	
Stack Gas Exit Velocity:	0.10	m/sec	Width of Release Opening:	
Stack Gas Temperature:	293.00	K		
Meteorological and Terrai	n Information:	:		
Surrounding Land Use:			Rural	
Terrain Height:			0.00 m	
Distance to Residence of I	nterest:		100.00 m	
Meteorological Class:			Full	

NA

NA

Downwash Information:

Stability Class:

Wind Speed:

Facility Length:

NA m
Facility Width:

NA m
Facility Height:

NA m

Chemical ID: P080508a		Assessor:		
	autori de la constitución de la	RONMENTAL RELEASE		Transports and properties and proper
Scenario#:3		Number of Release Site	es:	
Release Activity:	PDM			
Release Description:	WATER 1998	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:				
·	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)
		Non-sludge/Sludge		
Release Days/yr:				
Per Site Release:				
				(kg/site/day)

Chemical ID: P080508a

# SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:3

RELEASE ACTIVITY: PDM

FACILITY NAME:

FACILITY LOCATION:

RECEIVING WATER NAME:

REACH NUMBER FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

NPDES PERMIT #: EXPOSED POPULATION: Adult

WWT	PRETREATMENT	POSTTREATMENT	DWT	par quictiment
REMOVAL RELEASE (%) DAYS	RELEASE (kg/site/day)	RELEASE (kg/site/day)	(%)	BCF (L/kg)
		2		(L/Ag)

AQU	ATIC EXPOSURE ESTIMA	ATES - SURF	ACE WATER	appropriate a	
FLOW DESCRIPTOR	Harmonic Mean	30Q5	≟ ∤7Q10	1Q10	PLANT
FLOW (MLD)					
CONCENTRATION (µg/L)	2.04E-03	7.24E-03	9.72E-03	1.22E-02	NA

DRINKING WATER IN	GESTION AND FISH INGESTION E	XPOSURE ESTIMATES
Exposure Units	Drinking Water Results Units	Fish Ingestion Fish Ingestion Results Units
	Cancer	
LADD <sub>pot</sub>	1.31E-08 mg/kg/day	1.77E-10 mg/kg/day
LADC <sub>pot</sub>	6.71E-07 mg/L	2.12E-06 mg/kg
and the second s	Acute Acute	And the same of th
ADR <sub>pot</sub>	6.05E-07 mg/kg/day	1.16E-08 mg/kg/day

Surface Water Comments:

Chemical ID: P080508a

## SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 3

RELEASE ACTIVITY:

FACILITY NAME:

FACILITY LOCATION:

RECEIVING STREAM NAME:

REACH NUMBER:

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER:

GAGING STATION ID: N/A

GAGING STATION

GAGING STATION

NUMBER OF STATIONS ON

PERIOD OF RECORD: N/A

NUMBER OF OBSERVATIONS: N/A REACH: N/A

MEAN FLOW (MLD):

7q10 FLOW (MLD):

EFFLUENT FLOW (MLD)

· · · · · · · · · · · · · · · · · · ·	Marian Andrea	RESI	JLTS		The second
COC (hg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading (kg/site/day)	Waste Water Treatment (%)
1000.00	0	0		( Capital and )	

Chemical ID: P080508a		Assessor:		
A STATE OF THE STA	ENVI	RONMENTAL RELEASES	Appendix South State Sta	The second secon
Scenario#:4		Number of Release Sites	s:	
Release Activity:	max LADD			
Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:				
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)
,		Non-sludge/Sludge		
Release Days/yr:				
Per Site Release:				
•	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

(L/kg)

**PLANT** 

#### POST FOCUS EXPOSURE REPORT

Chemical ID: P080508a

FLOW DESCRIPTOR

#### SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES SCENARIO NUMBER:4 RELEASE ACTIVITY: max LADD FACILITY NAME: FACILITY LOCATION: RECEIVING WATER NAME: REACH NUMBER: FACILITY ON REACH: Yes DISCHARGE TYPE: Direct NPDES PERMIT #: EXPOSED POPULATION: Adult WWT PRETREATMENT POSTTREATMENT DWT REMOVAL RELEASE RELEASE RELEASE BCF (%) (kg/site/day) (kg/site/day) DAYS (%)

L					)	5
	# F	AQUA	TIC EXPOSURE ES	TIMATES - SURFA	CE WATER	Topa designation design

30Q5

7010

1010

Harmonic Mean

	Orinking Water   Drinking Water	Fish Ingestion Fish Ingestion
Exposure Units	Results	Results Units
al de la companya de	Cancer	
LADDpot	1.31E-08 mg/kg/day	1.77E-10 mg/kg/day
LADC <sub>pot</sub>	6.71E-07 mg/L	2.12E-06 mg/kg

Surface Water Comments:

Chemical ID: P080508a

## INHALATION EXPOSURE ESTIMATES (POST-TREATMENT)

SCENARIO#: 4

RELEASE ACTIVITY

max LADD

RELEASE DESCRIPTION:

METHOD OF CALCULATION: Screen3

**EXPOSED POPULATION: Adult** 

Number of Sites:

Per Site Fugitive Release:

kg/site/day

Fugitive Release Days per Year:

days

% Removal via Fugitive Release:

0.00 %

Total Fugitive Release:

kg/yr

Max Annual Average Air Concentration

5.44  $\mu g/m^3$ 

(Fugitive):

Max 24 Hour Average Air Concentration(Fugitive):

2.48E+04

 $\mu g/m^3$ 

Per Site Stack Release:

kg/site/day

Stack Release Days per Year:

days

% Removal via Stack Release:

0.00 %

Total Stack Release:

kg/yr

Max Annual Average Air Concentration (Stack):

 $00 \mu g/m^3$ 

Max 24 Hour Average Air Concentration (Stack):

 $0.00 \, \mu g/m^3$ 

Exposure Units	Results (Stack)	Results (Fugitive)	ED (years)	ASSUN AT (years)	IPTIONS BW	Inh. Rate (m³/hr)
LADD <sub>pot</sub> (mg/kg/day)	N/A	Cancer 4.00E-04	30.00	75.00	71.80	0.55
LADC <sub>pot</sub> (mg/m <sup>3</sup> )	N/A	2.18E-03	30.00	75.00	NA NA	NA NA
			And the second	Apple State of the		

Inhalation Comments:

Wind Speed:

Facility Length:

Facility Width:

Facility Height:

Downwash Information:

Stack Parameter	Data		Fugitive Parameter	r Data	
Stack Height	10.00	m	Release Height:	N/A	
Inside Stack Diameter:	0.10	m	Length of Release Opening:	N/A	
Stack Gas Exit Velocity:	0.10	m/sec	Width of Release Opening:	N/A	
Stack Gas Temperature:	293.00	K			
Matagralagical and Tarrega	in Information				
Meteorological and Terra	am intormation	•			
Surrounding Land Use:			Rural		
Terrain Height:			0.00		
Distance to Residence of	Interest:		0.00		
Meteorological Class:			Full		
Stability Class:			NA		

NA ft/sec

NA m

NA m

NA m

Chemical ID: P080508a		Assessor:		
5 3 4 6 6 5 8 7 15423 Th 756439.57	ENVI	RONMENTAL RELEASES	The state of the s	and the state of t
Scenario#:5		Number of Release Site	s: <b>I</b> .	
Release Activity:	PDM, max ADR			
Release Description:	WATER THE STATE OF	LANDFILL Non-sludge/Sludge	STACK	FUGITVE
Total Releases:	<b></b>			
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)
		Non-sludge/Sludge	,	
Release Days/yr:				
Per Site Release:				
	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)
Remarks:				

Chemical ID: P080508a

	Number of Sites:	PDM, max ADR
SIC-CODE DESCRIPTION:		
SIC-CODE (S):		EXPOSED POPULATION: Adult

44	Albertanes different	AQUATIC EXPOSURE ESTIMATES - SURFACE WATER
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD) STREAM CONG. (μg/l)
1970 *	1917	Harmonic Harmonic 30Q5 7Q10 1Q10 Mean 30Q5 7Q10 1Q10
ALL	50	
ALL	10	

DRINI	KING WATER	R AND FISH I	NGESTION	EXPOSURE ES	TIMATES	
Exposure Units	Drinking W	ater Results	Drinking Water Units	Fish Ingest	ion Results	Fish Ingestion Units
	50%	10%	1 15° 15.	50%	10%	
		part of the contract of the Co	Cancer	A STATE OF THE STA	The state of the s	engalashidibi da 1920-ini marana
LADD <sub>pot</sub>	5.04E-09	3.66E-08	mg/kg/day	6.82E-11	4.96E-10	mg/kg/day
LADC <sub>pot</sub>	2.58E-07	1.88E-06	mg/L	8.16E-07	5.94E-06	mg/kg
	The state of the s	and the second second	Acute		Service Service	PHILIPAGE STATES
ADR pot mining and state and address and a	2.09E-07	1.95E-06	mg/kg/day	6.11E-09	4.44E-08	mg/kg/day

SIC Code Comments:

Chemical ID: P080508a

		URFACE		

SCENARIO #: 5

COC (µg/L)

1000.00

RELEASE ACTIVITY: PDM, max ADR

SIC CODE DESCRIPTION:

ASSOCIATED SIC CODES:

	SIC	CODE RESULTS	
Percent of Year COC	Number of Days COC	Release Loading Waste Water High/Avg days/year (kg/site/day) Treatment (%) Analysis	
Exceeded	Exceeded		
0	0		

Chemical ID: P080508a		Assessor:					
The state of the s	ENV	IRONMENTAL RELEASE:	S to the state of				
Scenario#:6 Number of Release Sites:							
Release Activity:	Release Activity: max LADD						
Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE			
Total Releases:							
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)			
		Non-sludge/Sludge					
Release Days/yr:							
Per Site Release:							
•	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)			
Remarks:							

Chemical ID: P080508a

SIC-CODE BASED	HUMAN AND AQUATIC EXPOSUR	ES TO SURFACE WATER RELEASES
SCENARIO #: 6	Number of Sites:	RELEASE ACTIVITY max
SIC-CODE DESCRIPTION:		
SIC-CODE (S)		EXPOSED POPULATION: Adult
WWT REMOVAL RELEA (%) DAY	SE RELEASE RE	REATMENT DWT  LEASE (%) BCF  (site/day) (L/kg)

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	AQUATIC	EXPOSURE EST	IMATES - S	SURFACE V	WATER		
PLANT % ILE TYPE FACILITY		M FLOW (MLD	)		STREAM C	ONC. (µg/l)	
	Harmonic 300	5 7Q10	-1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL, 50				ik Station	2100		
ALL 10							

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES								
Exposure Units	Drinking W	ar.	Drinking Water Units	Arr of glid	ion Results	Fish Ingestion Units		
LADD <sub>pot</sub>	4.45E-09	10% ( 3.24E-08	ancer mg/kg/day	6.03E-11	4.38E-10	mg/kg/day		
LADCpot	2.28E-07	1.66E-06	mg/L	7.21E-07	5.25E-06	mg/kg		

SIC Code Comments:

Themical ID: P080508a		Assessor:		
A STATE OF THE STA	ENVIR	ONMENTAL RELEASE	<b>S</b>	Track Selection of the Control of th
Scenario#:7		Number of Release Sit	tes:	
Release Activity:	, PDM, max Al	DR		
Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:				
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)
		Non-sludge/Sludge		
Release Days/yr:				
Per Site Release:				
•	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

#### Chemical ID: P080508a

NPDES PERMIT #:

# SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES SCENARIO NUMBER:7 RELEASE ACTIVITY: PDM, max ADR FACILITY NAME: PDM, max ADR FACILITY LOCATION: RECEIVING WATER NAME: FACILITY ON REACH: Yes DISCHARGE TYPE: Direct

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT BCF (L/kg)	

**EXPOSED POPULATION: Adult** 

AQU	ATIC EXPOSURE ESTIMA	ATES - SURF	ACE WATER	en e	
FLOW DESCRIPTOR	Harmonic Mean	30Q5	□ 7Q10	1Q10	PLANT
FLOW (MLD)					
CONCENTRATION (µg/L)	5.47E-07	1.94E-06	2.61E-06	3.28E-06	NA

DRINKING WATER IN	GESTION AND FISH INGESTION E	XPOSURE ESTIMATES
Exposure Units	Drinking Water Results Drinking Water Units	Fish Ingestion Fish Ingestion Results Units
	Cancer	
LADD <sub>pot</sub>	1.46E-12 mg/kg/day	1.98E-14 mg/kg/day
LADC <sub>pot</sub>	7.50E-11 mg/L	2.37E-10 mg/kg
	Acute	
ADR <sub>pot</sub>	1.62E-10 mg/kg/day	3.11E-12 mg/kg/day

Surface Water Comments:

Chemical ID: P080508a

# SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 7

RELEASE ACTIVITY:

, PDM, max ADR

FACILITY NAME:

FACILITY LOCATION:

RECEIVING STREAM NAME:

REACH NUMBER:

FACILITY ON REACH: Yes.

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER:

GAGING STATION ID: N/A

GAGING STATION

GAGING STATION

NUMBER OF STATIONS ON

PERIOD OF RECORD: N/A

NUMBER OF

REACH: N/A

OBSERVATIONS: N/A

MEAN FLOW (MLD)

7q10 FLOW (MLD):

EFFLUENT FLOW (MLD)

		RESU	JLTS		
COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release days/year	Pre-treatment Loading	Waste Water Treatment (%)
1000.00	0	0		(kg/site/day)	A STATE OF THE STA

Chemical ID: P080508a		Assessor:		
	ENVI	RONMENTAL RELEASES		
Scenario#:8		Number of Release Sites	: 🗐	
Release Activity:	, Max LADD			
Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:				
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)
		Non-sludge/Sludge		
Release Days/yr:				
Per Site Release:				
	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks: Unknown Site

Chemical ID: P080508a

SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER:8 RELEASE ACTIVITY: , Max LADD

FACILITY NAME: , FACILITY LOCATION: RECEIVING WATER NAME: , FACILITY ON REACH: Yes DISCHARGE TYPE: Direct NPDES PERMIT #: EXPOSED POPULATION: Adult

WWT PRETREATMENT POSTTREATMENT DWT

2000	WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)

AQU	ATIC EXPOSURE ESTIMA	TES - SURF	ACE WATER		
FLOW DESCRIPTOR	Harmonic Mean	30Q5	7Q10	1Q10	PLANT
FLOW (MLD)					
CONCENTRATION (µg/L)					

DRINKING WATER INGES	TION AND FISH INGESTION E	XPOSURE ESTIMATES
Exposure Units Dr	inking Water Drinking Water Results Units	Fish Ingestion Fish Ingestion Results Units
	Cancer	
LADDpot	1.44E-12 mg/kg/day	1.95E-14 mg/kg/day
LADCpot	7.38E-11 mg/L	2.33E-10 mg/kg

Surface Water Comments:

Chemical ID: P080508a

# SITE-SPECIFIC HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO NUMBER: 8

RELEASE ACTIVITY: Max LADD

FACILITY NAME:

FACILITY LOCATION:

RECEIVING STREAM NAME:

REACH NUMBER:

FACILITY ON REACH: Yes

DISCHARGE TYPE: Direct

NPDES PERMIT NUMBER:

GAGING STATION ID: N/A

GAGING STATION

PERIOD OF RECORD: N/A

GAGING STATION

NUMBER OF

OBSERVATIONS: N/A

NUMBER OF STATIONS ON

REACH: N/A

		RESI	ULTS
COC (µg/L)	Percent of Year COC Exceeded	Number of Days COC Exceeded	Release Pre-treatment Waste Water days/year Loading Treatment (%) (kg/site/day)
1000.00	0	0	the transfer of the later than the l

Chemical ID. F080308a		Assessor.		
	ENVIR	ONMENTAL RELEASI	S	
Scenario#:9		Number of Release Sit	es:	
Release Activity:	max LADD			
Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:				
	(kg/yr)	(kg/yr)	(kg/yr)	(kg/yr)
		Non-sludge/Sludge		,
Release Days/yr:				
Per Site Release:				
	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)
Remarks:				

Chemical ID: P080508a

# INHALATION EXPOSURE ESTIMATES (POST-TREATMENT)

SCENARIO #: 9

RELEASE ACTIVITY

, max LADD

RELEASE DESCRIPTION:

METHOD OF CALCULATION: Screen3

EXPOSED POPULATION: Adult

Number of Sites:

Per Site Fugitive Release: kg/site/day

Fugitive Release Days per Year: days

% Removal via Fugitive Release:

Total Fugitive Release: kg/yr

Max Annual Average Air Concentration 6.19 μg/m<sup>3</sup>

(Fugitive):

Max 24 Hour Average Air 2.82E+04 μg/m<sup>3</sup>

Concentration(Fugitive):

Per Site Stack Release: kg/site/day

Stack Release Days per Year: days

% Removal via Stack Release: 0.00 %

Total Stack Release: kg/yr

Max Annual Average Air Concentration (Stack): 3.69E-03 μg/m³

Max 24 Hour Average Air Concentration (Stack): 6.74 μg/m<sup>3</sup>

Exposure Units Results (Stack)	Results (Fugitive)	ED (years)	ASSUM AT (years)	APTIONS BW (kg)	Inh. Rate (m³/hr)
	Cancer	p <sup>a</sup> p <sup>a</sup> p			
LADD <sub>pot</sub> (mg/kg/day)	4.55E-04	30.00	75.00	71.80	0.55
LADC <sub>pot</sub> (mg/m <sup>3</sup> )	2.48E-03	30.00	75.00	NA	NA

Inhalation Comments:

Downwash Information:

Facility Length:

Facility Width:

Facility Height:

Stack Paramete	r Data		F	ugitive Paramet	er Data	
Stack Height	10.00	m	Release H	leight: .	3.00	r
Inside Stack Diameter:	0.10	m	Length of Opening:	Release	10.00	r
Stack Gas Exit Velocity:	0.10	m/sec	Width of Opening:	Release	10.00	r
Stack Gas Temperature:	·293.00	K				
Matagoria di al matrico	unium Tan Communati suss					
_	rain Information	:	Dural			
Surrounding Land Use:	ain Information	:	Rural			
Surrounding Land Use:	rain Information	:	Rural 0.00	m		
Meteorological and Terr Surrounding Land Use: Terrain Height: Distance to Residence of		:		m m		
Surrounding Land Use: Terrain Height:		•	0.00			
Surrounding Land Use: Terrain Height: Distance to Residence of		•	0.00 100.00			

NA m

NA m

NA m